



Application Software  
CETA Soft 2G for free!



### Leak Tester CETATEST 515 - available in three different types

The CETATEST 515 with differential pressure sensor is a full automatically working leak tester for the detection of untight parts within the cycle time of the production process. The leak tester is available in three different types:

- 1 The configuration "closed components - high resolution" can be used for test parts which cannot be filled, so called "closed components". It is possible to detect very small ratios of test part volumes ( $0.03 \text{ ml} < \Delta V < 1.0 \text{ ml}$ ).
- 2 The type "pressure decay - high speed" can be used for leak tests of very small test parts in high speed production cycles.
- 3 The configuration "pressure rise" has a 50 % larger measurement signal (compared to the CETATEST 815).

#### Operating methods

One channel operation

#### Signal processing

Fast 24-bit-A/D-Converter  
Real-time processing of the measurement signals

#### Pneumatic

Minimized volume to optimise the resolution

#### Processing

Real time microcontroller system,  
16-bit  $\mu\text{C}$  / 40 MHz

#### Pressure sensors

Differential pressure sensor,  
gauge pressure sensor

#### Measurement ranges

$\pm 500 \text{ Pa}$  /  $\pm 5,000 \text{ Pa}$   
(displayed resolution: 1 Pa,  
internal resolution: effective 0.01 Pa),  
other ranges on request

#### Result units

Pa, hPa, PSI, Pa/s, hPa/s, mbar\*/l/s,  
ml/min, ml/h, l/min, l/h, mmHg, mmWs, Torr

#### Pressure ranges

-1,000 mbar, 200 mbar, 1,000 mbar, 6 bar,  
negative and positive gauge pressure  
ranges can be combined  
(e.g. -1 bar/+1 bar),  
other pressure ranges and mechanical  
pressure regulator on request

#### Test modes

Pressure decay,  
"closed component - high resolution",  
pressure decay - "high speed",  
pressure rise

#### Test options

Prefill, program series, smooth  
filling, repeated filling, temperature  
compensation, variable zero point,  
test repetition / automatic test time  
adjustment, free programmable control  
valves

#### System control

Still-Alive-Check with differential pressure  
sensor control, patented automatic  
function control (option), control of the  
compressed air supply, consecutive zero  
results.

#### Programmable test phases

Delay, filling, stabilising, measuring,  
venting, reservoir filling, flooding, refilling

#### Test mode specific limits

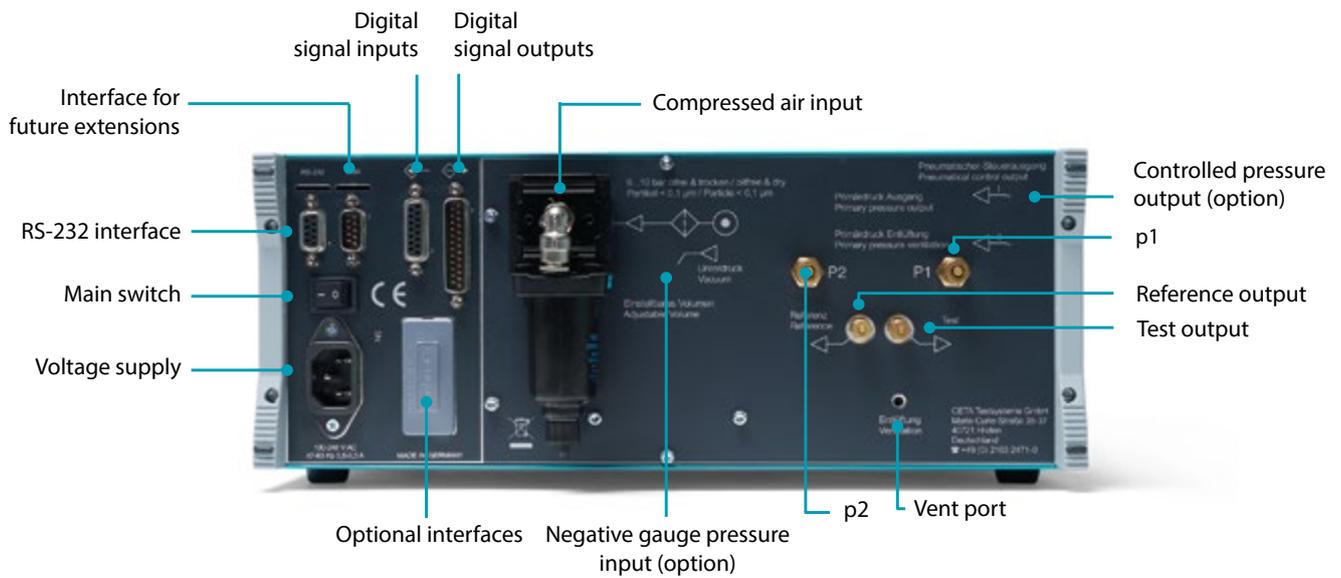
Prefill pressure, filling pressure, test part  
specific reject and rework levels

#### Handling

Intuitive menu, password protected user  
levels

#### Parameter memory

64 individually parameterizable test  
programs with alpha-numeric program  
names, parameters of the test programs  
can be exported resp. imported via the  
test device interfaces or by usage of a USB  
storage device.



## Interfaces

Function	Start / Stop / Reset	Program selection	Device status / system fault	Evaluation (Pass / Fail)	Parameterization	Measurement results	Detailed fault messages
Digital I/O (standard)	■	■	■	■			
RS-232 (standard)	■	■	■	■	■	■	■
Profibus DP (option)	■	■	■	■	■	■	■
Profinet (option)	■	■	■	■	■	■	■
Ethernet (option)	■	■	■	■	■	■	■
EtherCAT (option)	■	■	■	■	■	■	■

Further interfaces on request. The optional RS-232 protocol converter enables the exchange of a CETATEST 510 that communicates via RS-232, against a CETATEST 515.

## Further functions

Result statistics, indicator for service intervals, registration of parameter change, recording of measurement series and measurement curves, Dynamic Link Library (DLL) for RS-232 interface programming

## Power supply and power consumption

100 - 240 V AC, 47 - 63 Hz, 0.6 - 0.3 A, depending on stage of expansion max. 60 W

## Compressed air supply

6 - 10 bar and 0.5 bar above test pressure resp. 50 mbar under evacuation pressure (ISO 8573-1:2010 [1:4:1])

## Pneumatic connections

Input (compressed air supply):  
6 mm plug-in fitting

Port for test part: 3 mm clamping ring  
Up to three pneumatically controlled outputs

## Dimensions and weight

W x H x D: 345 mm x 145 mm(3U) x 435 mm  
Weight: ca. 10 kg

## Scope of delivery

Special packaging, power cord, documentation and PC-software on CD, calibration certificate, declaration of conformity, D-Sub-plug including cable for inputs and outputs (PLC-communication), spare sealing caps and spare caps for union nuts coupling or spare clamp rings

## DAkKS calibration and DAkKS calibration certificate

All new CETATEST 515 devices will be delivered free of charge with DAkKS calibration certificate according to DIN EN ISO/IEC 17025.

## Warranty

3 years in case of yearly maintenance, optional prolongation to 5 years

## Accessories (optional)

Filter combination, leak test, leaktight 3/2-way valve, RS-232 protocol converter, application software CETA Soft 2G, scanner interface, more in the CETA accessories catalogue.

